

ABSTRAC

PT. United Coal Indonesia has mineable coal reserves will do as much as 1.265.176 Tons of coal mining in the Mining Permit site is located in the village of Gandrung, District Nails, East Bar agency, Central Kalimantan Province. Currently do not have a mining plan that requires a planned and directed the design of mining to meet the production target of 300.000 ton / year. The design of pushback mining has focused on the block priority 2-4, for the geometry level to be used in the design according to the recommendations of the Geotech department is to high levels of single slope-10m, the width of ladder 3m, the slope of the level of a single 55° and the slope of the level of 41° with a stripping ratio of mean - average 18 : 1. Of the amount of existing reserves and production targets are estimated to ± 4 year mine life.

Mining direction starting from the section 10 to 36 because of section 01 to 09 already done mine. Mining in year I was conducted from section 10 to 18 at an elevation of 130 and ends at an elevation of 20 meters above sea level, estimated volume of top soil and overburden 6.027.332 BCM and coal to be mined as much as 320.216 tons with stripping ratio of 19 : 1. Mining In year II was conducted from section 18 to 23 at an elevation of 140 and ends at an elevation of 20 meters above sea level, estimated volume of top soil and overburden 6.236.571 BCM and coal to be mined by stripping as much as 311.237 Ton with stripping ratio of 20 : 1. Mining In year III was conducted from section 23 to 29 at an elevation of 130 and ends at an elevation of 40 meters above sea level, estimated volume of top soil and overburden total of 5.289.835 BCM and coal to be mined by stripping as much as 320.066 Ton ratio 17 : 1. Mining In year IV was conducted from section 29 to 36 at an elevation of 120 and ends at an elevation of 20 meters above sea level, estimated volume of top soil and overburden 4.816.553 BCM and coal to be mined by stripping as much as 313.655 Ton ratio 15 : 1.

For stockpiling overburden dump and way outside backfilling, trenching results from Pit_1 done in a way outside the dump to be disposed of to landfill waste volume as much dump_1 with 2.697.280 CCM and proceed to the volume of landfill waste by as much dump_2 1.022.034 CCM. The results of the excavation Pit_2 will in backfilling to the waste dump_3 with volume of landfill waste by as much 6.859.940 CCM. The results of the excavation Pit_3 will be backfilling to the waste dump_4 with volume of landfill waste by as much 5.094.275 CCM. The results of the excavation Pit_4 will be backfilling to the waste dump_5 with volume of landfill waste by as much 12.211.289 CCM.